

Virginia Division of Consolidated Laboratory Services- Richmond, VA

Measurement of Purgeable Organic Compounds in Water by Capillary Column GC/MS EPA 524.2 Revision 4.1					
Facility Name: _____			VELAP ID _____		
Assessor Name: _____		Analyst Name: _____		Inspection Date _____	
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
<i>Records Examined:</i> SOP Number/ Revision/ Date _____ Analyst: _____ Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Are samples collected in duplicate?	5.5.4.1 EPA 8.1.1				
Are sample vials prepared with either ascorbic acid (25 gm/ 40 mL drinking H <sub>2</sub> O) or sodium thiosulfate (3mg) for dechlorination?	5.5.4.1 EPA 8.1.1				
Are samples to be analyzed for vinyl chloride dechlorinated with ascorbic acid rather than sodium thiosulfate?	5.5.4.1 EPA 8.1.1				
Are samples preserved by acidification with HCl to pH < 2 at the time of collection after dechlorination?	5.5.4.1 EPA 8.2.1				
Are preserved samples analyzed within 14 days of collection?	5.5.4.1 EPA 8.2.2				
Are unpreserved samples flagged and analyzed within 24 hours of collection?	5.5.4.1 EPA 8.2.3				
Are samples stored away from organic solvent vapors or intense light at a temperature 4° C?	5.5.4.1 EPA 8.2.1				
Is the pH of the sample checked after analysis and the result recorded?	5.5.4.1 5.12.3.1.b				
Is free residual chlorine analyzed and recorded?	5.5.4.1 EPA 8.1.1				
Are field blanks preserved in the field and handled same as samples?	5.5.4.1 EPA 8.3				
Are new traps conditioned overnight at 180°C or according to the manufacturer's instructions prior to use?	5.10.2.a EPA 6.2.2				
Is the tuning solution injection limited to 25 ng or less BFB?	5.5.4.1 EPA 6.3.4				
Is the trap conditioned daily for 10 minutes at 180°C or according to the manufacturer's instructions?	5.5.4.1 EPA 6.2.2				
Purge time: [ ] 11 minutes Purge gas flow rate: [ ] 40 ml/min Interface: [ ] cryogenic; [ ] non-cryogenic	5.5.4.1 EPA 11.2.1				
Comments:					

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Desorb Cycle: <input type="checkbox"/> 5 minutes (cryogenic interface) <input type="checkbox"/> 4 minutes (non-cryogenic interface) <input type="checkbox"/> Other per manufacturer's specification _____	5.5.4.1 EPA11.2.1				
Does the analyst use a minimum of <input type="checkbox"/> 3 standards to calibrate a range at factor of 20 in conc. <input type="checkbox"/> 4 standards to calibrate a range at factor of 50 in conc. <input type="checkbox"/> 5 standards to calibrate a range at factor of 100 in conc.	5.5.4.1 EPA 7.8.1				
Standard Curve Regression Analysis: <input type="checkbox"/> Linear; <input type="checkbox"/> Quadratic					
Linear regression acceptance criteria within $\pm 30\%$ of the true value?	5.5.4.1 EPA 10.3.5				
If used, what acceptance criteria are applied to quadratic regression analysis?					
Is the Relative Standard Deviation for the mean Response Factor for each analyte and surrogate within 20 % and within 30% of mean value of initial calibration?	5.5.4.1 EPA 10.2.6				
Do the IS and surrogate areas not decrease from the latest continuing calibration check by more than 30% or the initial calibration by more than 50%?	5.5.4.1 EPA 10.3.4				
For drinking water, is a method detection limit of 0.0005 mg/L achieved according to the procedures in appendix B of 40 CFR part 136?	40CFR 141.24(f)(17)(i)(E)				
Comments:					